

APPARATUS HYBRID INTERCOM SYSTEM

05/14/2020

City of Gallatin

1.0 Introduction

The City of Gallatin Fire Department is seeking bids for the purchase of a “HYBRID INTERCOM SYSTEM”. Bids are to be submitted no later than **May 28th 2020 @ 3:00 pm** in a sealed envelope clearly identified “HYBRID INTERCOM SYSTEM” enclosed and bid due date and time marked on outside of envelope. Any questions please contact J.R. Smith @ 615-451-5899.

1.1 Scope of Work

This specification covers a new, commercially produced hybrid intercom system. Any system bid in response to these specifications shall be designed to allow upgrading and interchangeability with other components of the same manufacturer. The City of Gallatin Fire Department will attempting to purchase 9 total systems.

2.0 Vendor Requirements

- Vendor must complete attached price sheet.
- **Vendor must delivery product at no additional charge.**
- Pricing Good for 90 days.

3.0 Evaluation of Proposals

The City of Gallatin will award the contract to lowest responsible and responsive bidder meeting specifications, quality, and performance standards pursuant to the Municipal Purchasing Act of 1983. Response will be based on the following factors;

- Completeness of response
- Cost
- Vendor track record, including references
- Quality of service and product performance

4.0 Contract Award

The City of Gallatin reserves the right to reject any or all proposals and to waive any informality found therein. The City of Gallatin will award a contract based on evaluations described above.

5.0 Product Requirements

APPLICABLE DOCUMENTS

Any manufacturer or vendor responding to this bid shall enclose in their proposal, at the time of bid, any documents required in these specifications. It is the responsibility of the vendor to be sure that the proposal submitted meets listed requirements of these specifications. Bids which fail to comply with these specifications shall not be considered for award.

MATERIALS

The hybrid intercom system delivered under these specifications shall be standard commercial products, which meet or exceed the requirements of this specification. The components and optional items shall be represented in the manufacturer's current sales and technical data. The supplier shall provide total standardization and interchangeability between similar components, items, and accessories of the manufacturer specified in the proposal.

Materials used in the construction of the hybrid intercom system shall be new and not less than the quality conforming to current engineering and manufacturing practices. Materials shall be free of defects and suitable for the service intended.

EXCEPTIONS TO THE SPECIFICATIONS

It is not the intent of these specifications to restrict or prevent any vendor from submitting a proposal on his/her product. Due to the fact that the equipment specified is to be used under emergency and hazardous conditions, where human life may be at risk, the following must apply. Any exceptions to these specifications indicated herein must be clearly pointed out; otherwise it will be considered that items offered are in strict compliance with these specifications and the successful bidder will be held responsible for delivering a hybrid intercom system meeting these specifications. Any exceptions taken shall be listed and noted on the exception sheet found at the end of these specifications.

INFORMATION AND DESCRIPTIVE LITERATURE

Bidders must furnish all information requested and in the space provided on the bid form. In addition, vendors shall supply at least two (2) sets of literature covering the products offered. Bids not meeting this requirement will be rejected without further explanation.

ANTI-COLLUSION STATEMENTS

By signing this bid the bidder agrees that this proposal is made without any misunderstanding, agreement, or connection with any other person, firm, or corporation making a bid for the same purpose, and that the bid is in all respects fair and without collusion or fraud.

Sign in ink in the space provided below. Unsigned bids will be considered as incomplete and will be rejected without further explanation.

It is agreed by the undersigned bidder that the signing and delivery of this bid represents the bidder's acceptance of the terms and conditions of the foregoing specifications and provisions; and if awarded the contract by this agency, will represent the agreement between the parties.

Brand of Hybrid

Intercom System: _____

Delivery will be made in _____ days, not to exceed twelve (12) weeks.

SPECIAL NOTE:

Variances or exceptions must be noted and numbered on the following pages and explained in full detail on the last pages of this specification. Vendors whose bid fails to comply with this requirement will not be accepted.

GENERAL CONDITIONS

The following is a description of the hybrid intercom system that will meet the minimum requirements of this specification. These specifications are to be considered as minimum, and are expressed as such. If the intercom (s) and component parts delivered under this contract do not comply with these specifications, the intercom (s) will not be accepted. Any vendor failing to meet his/her obligations required as part of this contract may be forced to pay liquidated damages to this agency. Such damages shall not exceed an amount in acquiring a replacement product or tool meeting the requirements of this specification.

Comply _____ Exception _____

DIGITAL INTERCOM:

Power: 11-30VDC; 1A at 12V nominal

Performance: Digital encoding; Supports connection mix of up to six (6) wireless bases, 24 headsets, one (1) radio, and one (1) auxiliary device.

Storage Temperature: -40°F to 158°F (-40°C to 70°C)

Operating Temperature: -40°F to 185°F (-40°C to 85°C)

Dimensions: 6.6"D x 6.1"W x 2.0"H (with bracket)

Weight: 2.4lbs (without bracket)

MIL-STD

Humidity: Per 810F and 810G

Temperature Shock: Per 810F and 810G

SAE

Vibration: Per J1455 Sec. 4.9

Conducted Immunity: Per J1113-11

Electrostatic Discharge: Per J1113-13

Radiated Emissions: Per J1113-41

Radiated Immunity: Per J1113-21

Comply _____ Exception_____

DECT7 WIRELESS BASE STATION:

Voltage Input: 5 VDC to 16 VDC

Maximum Current Input: 400 mA @ 5V, 150mA @ 12V

Dimensions: 5.7" L x 2.72" W x 1.2" H (not including external antenna)

Weight: 4.8oz

IP Rating: IP-20

Storage Temperature: -40°F to 140°F (-40°C to 60°C)

Operating Temperature: -40°F to 140°F (-40°C to 60°C)

Carrier Spacing: 1.724 MHz

Time Slots: 2 x 12 (up and down stream)

Channel Allocation: Dynamic

Encryption: DECT Standard Cipher with 35-bit initialization vector

Audio Bandwidth: 300 Hz to 3.4 kHz, Narrow Band, G.726 compression

Audio Bandwidth: 50 Hz to 7 kHz, Wide Band, G.722 compression

Frequency Bandwidth: 1919.808 MHz to 1930.176 MHz

Number of Carriers: 5

Average Output Power: 4 mW

Maximum Output Power: 100 mW

Range (line of sight): 1,600 feet maximum

MIL-STD

Humidity: Per 810F and 810G

Temperature Shock: Per 810F and 810G

SAE

Vibration: Per J1455 Sec. 4.9

Conducted Immunity: Per J1113-11

Electrostatic Discharge: Per J1113-13

Radiated Emissions: CISPR 25

Radiated Immunity: ISO 11452-2

ISO

Conducted Transients per 7637-2

Comply _____ **Exception** _____

WIRED UNDER-HELMET HEADSET:

Weight: 19 oz.

Color: Black

Noise Reduction Rating: 24dB NRR

IP-65 rated, when worn

Operating Temperature: -40°F to 158°F (-40°C to 70°C)

Storage Temperature: -40°F to 185°F (-40°C to 85°C)

Charging Temperature: 32°F to 104°F (0°C to 40°C)

MIL-STD

Humidity: Per 810F and 810G

Temperature Shock: Per 810F and 810G

Chemical Exposure: Per 810F and 810G

SAE

Salt Spray: Per J1455, Sec. 4.3

ISO

Conducted Transients: Per 7637-2

Comply ____ Exception ____

RADIO TRANSMIT UNDER-HELMET DECT7 WIRELESS HEADSET:

Dynamic channel allocation

DECT Standard Cipher with 40-bit initialization vector

Frequency Bandwidth: 1920 MHz to 1930 MHz

3.7V rechargeable lithium ion battery

More than 24 hours of battery life at 77°F (25°C)

Charge time: 4 hours

AC Charge Source: supplied 12V, 500mA wall charger

DC Charge Source: 5V to 16V, 1.5A minimum, cable supplied

Over voltage, under voltage, over current and over temperature protection

Weight: 16 oz. (without ruggedizers)

Color: Black

Noise Reduction Rating: 20dB NRR

Side Pressure: 2.2 lbs.IP-65 rated, when worn

Operating Temperature: -22°F to 140°F (-30°C to 60°C)

Storage Temperature: -4°F to 122°F (-20°C to 50°C)

Charging Temperature: 32°F to 113°F (0°C to 45°C)

MIL-STD

Humidity: Per 810F and 810G

Temperature Shock: Per 810F and 810G

Chemical Exposure: Per 810

SAE

Salt Spray: Per J1455, Sec. 4.3

Vibration: Per J1455, Sec. 4.9

Conducted Immunity: Per J1113-11

Electrostatic Discharge: Per J1113-13

Radiated Emissions: Per CISPR 25

Radiated Immunity: Per ISO 11452-2

ISO

Conducted Transients: Per 7637-2

Quality Management System ISO 9001:2008

Comply _____ Exception_____

HEADSET MODULE:

Single prong jack

Comply _____ Exception_____

ACC. PORT:

Kenwood TK 5710

Comply _____ Exception_____

HEADSET HANGER HOOK:

Yellow NFPA Compliant

Comply _____ Exception_____

CABLE:

6C Flat 150' Spool

Comply _____ Exception_____

7.0 Question Submissions

Todd Wagoner

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Gallatin Fire Department
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Gallatin, TN 37066
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todd.wagoner@gallatintn.gov

8.0 Proposal Submission

ALL SUBMISSIONS MUST BE SEALED AND CLEARLY MARKED

“HYBRID INTERCOM SYSTEM”

Proposals shall be directed to the attention of:
Finance Department
Attn: J.R.Smith
132 West Main Street
Gallatin, TN 37066
Telephone: 615-451-5899

Bid Due Date: May 28th 2020 @ 3:00 pm

PRICE SHEET
(FOB Pricing)

DIGITAL INTERCOM:	\$_____ each
DECT7 WIRELESS BASE STATION:	\$_____ each
WIRED UNDER-HELMET HEADSET:	\$_____ each
RADIO TRANSMIT UNDER-HELMET DECT7 WIRELESS HEADSET:	\$_____ each
HEADSET MODULE:	\$_____ each
ACC. PORT:	\$_____ each
HEADSET HANGER HOOK:	\$_____ each
CABLE:	\$_____ each

Name of Company: _____

Address: _____

Telephone: _____

Signature: _____

Print Name: _____

Title: _____

Date: _____

Email Address: _____

Iran Divestment Act:

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and believe that each bidder is not on the list created pursuant to §12-12-106.